

Title (en)

ANTI-LEUKOCYTE RECRUITMENT THERAPY FOR THE TREATMENT OF SEIZURES AND EPILEPSY

Title (de)

ANTI-LEUKOZYTEN-REKRUTIERUNGSTHERAPIE ZUR BEHANDLUNG EPILEPTISCHER ANFÄLLE

Title (fr)

THÉRAPIE DE RECRUTEMENT ANTI-LEUCOCYTAIRE POUR LE TRAITEMENT DE CRISES ÉPILEPTIQUES ET DE L'ÉPILEPSIE

Publication

EP 2029164 B1 20151223 (EN)

Application

EP 07809438 A 20070606

Priority

- US 2007013624 W 20070606
- US 81187306 P 20060607

Abstract (en)

[origin: WO2007146188A2] Methods are provided for the prevention and treatment of seizures and epilepsy. It is shown herein that leukocyte recruitment plays a key role in the pathogenesis of epilepsy. Treatment with an agent that inhibits leukocyte recruitment has therapeutic and preventative effects in blocking recurrent seizures and epilepsy.

IPC 8 full level

A61K 39/395 (2006.01)

CPC (source: EP US)

A61K 39/3955 (2013.01 - US); **A61P 25/00** (2017.12 - EP); **A61P 25/08** (2017.12 - EP); **C07K 16/2821** (2013.01 - EP US); **C07K 16/2836** (2013.01 - EP US); **C07K 16/2842** (2013.01 - EP US); **C07K 16/2845** (2013.01 - EP US); **C07K 16/2854** (2013.01 - EP US); **C07K 16/2896** (2013.01 - EP US); **C07K 2317/76** (2013.01 - EP US)

Citation (examination)

- WO 0032633 A1 20000608 - ICOS CORP [US]
- ZHU YING ET AL: "Nectin-4/SynCAM-4 Is Expressed in Myelinating Oligodendrocytes but Not Required for Axonal Myelination", PLOS ONE, vol. 8, no. 6, May 2013 (2013-05-01), pages Article No.: e64264, ISSN: 1932-6203(print)
- MAUREL PATRICE ET AL: "Nectin-like proteins mediate axon Schwann cell interactions along the internode and are essential for myelination", THE JOURNAL OF CELL BIOLOGY : JCB, THE ROCKEFELLER UNIVERSITY PRESS, US, vol. 178, no. 5, 27 August 2007 (2007-08-27), pages 861 - 874, XP002492596, ISSN: 0021-9525, DOI: 10.1083/JCB.200705132
- DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; 3 March 2004 (2004-03-03), EHRHARDT C ET AL: "Selectins - An emerging target for drug delivery", Database accession no. E2004098036133 & ADVANCED DRUG DELIVERY REVIEWS 20040303 ELSEVIER NL, vol. 56, no. 4, 3 March 2004 (2004-03-03), pages 527 - 549, DOI: 10.1016/J.ADDR.2003.10.029
- APPELDOORN C C M ET AL: "Rational Optimization of a Short Human P-selectin-binding Peptide Leads to Nanomolar Affinity Antagonists", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY, US, vol. 278, no. 12, 21 March 2003 (2003-03-21), pages 10201 - 10207, XP002275710, ISSN: 0021-9258, DOI: 10.1074/JBC.M209267200
- LUTTERS B C H ET AL: "BLOCKING ENDOTHELIAL ADHESION MOLECULES: A POTENTIAL THERAPEUTIC STRATEGY TO COMBAT ATHEROGENESIS", CURRENT OPINION IN LIPIDOLOGY, LIPPINCOTT WILLIAMS AND WILKINS, LONDON, GB, vol. 15, no. 5, 1 January 2004 (2004-01-01), pages 545 - 552, XP008074993, ISSN: 0957-9672, DOI: 10.1097/00041433-200410000-00008
- JACKSON DAVID Y ET AL: "Potent alpha-4-beta-1 peptide antagonists as potential anti-inflammatory agents", JOURNAL OF MEDICINAL CHEMISTRY, vol. 40, no. 21, 1997, pages 3359 - 3368, ISSN: 0022-2623
- WANG J ET AL: "The crystal structure of an N-terminal two-domain fragment of vascular cell adhesion molecule 1 (VCAM-1): a cyclic peptide based on the domain 1 C-D loop can inhibit VCAM-1-alpha4 integrin interaction", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF SCIENCES, US, vol. 92, no. 12, 6 June 1995 (1995-06-06), pages 5714 - 5718, XP002082127, ISSN: 0027-8424
- LIN K-C ET AL: "VERY LATE ANTIGEN 4 (VLA4) ANTAGONISTS AND ANTI-INFLAMMATORY AGENTS", CURRENT OPINION IN CHEMICAL BIOLOGY, CURRENT BIOLOGY LTD, LONDON, GB, vol. 2, 1 January 1998 (1998-01-01), pages 453 - 457, XP000869619, ISSN: 1367-5931, DOI: 10.1016/S1367-5931(98)80120-8
- DATABASE BIOSIS [online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1994, CARDARELLI PINA M ET AL: "Cyclic RGD peptide inhibits alpha-4-beta-1 interaction with connecting segment 1 and vascular cell adhesion molecule", Database accession no. PREV199497400068 & JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 28, 1994, pages 18668 - 18673, ISSN: 0021-9258
- SIMMONS ET AL: "Anti-adhesion therapies", CURRENT OPINION IN PHARMACOLOGY, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 5, no. 4, 1 August 2005 (2005-08-01), pages 398 - 404, XP027625389, ISSN: 1471-4892, [retrieved on 20050801]
- DATABASE MEDLINE [online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 1995, ELICES M J: "The integrin alpha 4 beta 1 (VLA-4) as a therapeutic target.", Database accession no. NLM7587639 & CIBA FOUNDATION SYMPOSIUM 1995, vol. 189, 1995, pages 79 - 85 ; disc, ISSN: 0300-5208
- ROMANO SUZANNE J: "Selectin antagonists : therapeutic potential in asthma and COPD.", TREATMENTS IN RESPIRATORY MEDICINE 2005, vol. 4, no. 2, 2005, pages 85 - 94, ISSN: 1176-3450

Cited by

US10947311B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007146188 A2 20071221; **WO 2007146188 A3 20081023**; EP 2029164 A2 20090304; EP 2029164 A4 20100317; EP 2029164 B1 20151223; EP 3042668 A1 20160713; EP 3042668 B1 20180919; EP 3461499 A1 20190403; US 2008025992 A1 20080131; US 2010098714 A1 20100422; US 2013230539 A1 20130905; US 7682613 B2 20100323; US 8383116 B2 20130226; US 9480741 B2 20161101

DOCDB simple family (application)

US 2007013624 W 20070606; EP 07809438 A 20070606; EP 15195847 A 20070606; EP 18188169 A 20070606; US 201313773416 A 20130221; US 58787909 A 20091013; US 81124507 A 20070607